



Main

Range	TeSys Deca
Range of product	TeSys Deca
Product or component type	Contactor
Device short name	LC1D
Contactor application	Resistive load Motor control
Utilisation category	AC-1 AC-3
Poles description	3P
[Ue] rated operational voltage	Power circuit: ≤ 300 V DC Power circuit: ≤ 1000 V AC 25...400 Hz
[Ie] rated operational current	200 A (at ≤60 °C) at ≤ 440 V AC AC-1 for power circuit 115 A (at ≤60 °C) at ≤ 440 V AC AC-3 for power circuit
[Uc] control circuit voltage	380 V AC 50/60 Hz

Complementary

Motor power kW	30 kW at 220/240 V AC 50/60 Hz (AC-3) 55 kW at 380/400 V AC 50/60 Hz (AC-3) 59 kW at 415/440 V AC 50/60 Hz (AC-3) 75 kW at 500 V AC 50/60 Hz (AC-3) 80 kW at 660/690 V AC 50/60 Hz (AC-3) 75 kW at 1000 V AC 50/60 Hz (AC-3)
Compatibility code	LC1D
Pole contact composition	3 NO
Protective cover	Without
[Ith] conventional free air thermal current	200 A (at 60 °C) for power circuit
[Icw] rated short-time withstand current	1100 A 40 °C - 1 s for power circuit 950 A 40 °C - 10 s for power circuit 550 A 40 °C - 1 min for power circuit 250 A 40 °C - 10 min for power circuit
Associated fuse rating	250 A gG at ≤ 690 V coordination type 1 for power circuit 200 A gG at ≤ 690 V coordination type 2 for power circuit
Average impedance	0.6 mOhm - Ith 200 A 50 Hz for power circuit
[Ui] rated insulation voltage	Power circuit: 1000 V conforming to IEC 60947-4-1
Overvoltage category	III
Pollution degree	3
[Uimp] rated impulse withstand voltage	8 kV conforming to IEC 60947
Safety reliability level	B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1
Mechanical durability	8 Mcycles
Electrical durability	0.5 Mcycles 250 A AC-1 at Ue ≤ 440 V 0.9 Mcycles 115 A AC-3 at Ue ≤ 440 V 1.4 Mcycles 80 A AC-3 at Ue 660/690 V
Control circuit type	AC at 50/60 Hz
Coil technology	Without built-in suppressor module

Control circuit voltage limits	0.3...0.5 U _c (-40...55 °C):drop-out 50/60 Hz 0.8...1.15 U _c (-40...55 °C):operational 50/60 Hz
Inrush power in VA	280...350 VA 50 Hz cos phi 0.8 (at 20 °C) 280...350 VA 60 Hz cos phi 0.8 (at 20 °C)
Hold-in power consumption in VA	2...18 VA 50 Hz cos phi 0.3 (at 20 °C) 2...18 VA 60 Hz cos phi 0.3 (at 20 °C)
Heat dissipation	3...8 W at 50/60 Hz
Operating time	6...20 ms opening 20...50 ms closing
Maximum operating rate	2400 cyc/h 60 °C
Connections - terminals	Control circuit: screw clamp terminals 2 1...2.5 mm ² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 1...2.5 mm ² - cable stiffness: flexible with cable end Power circuit: bus terminal - cable stiffness: solid - busbar cross section: 5 x 25 mm Power circuit: connector 1 10...120 mm ² - external diameter: 25 mm - cable stiffness: flexible without cable end Power circuit: connector 2 10...50 mm ² - external diameter: 25 mm - cable stiffness: flexible without cable end Power circuit: connector 1 10...120 mm ² - external diameter: 25 mm - cable stiffness: flexible with cable end Power circuit: connector 2 10...50 mm ² - external diameter: 25 mm - cable stiffness: flexible with cable end Power circuit: connector 1 10...120 mm ² - external diameter: 25 mm - cable stiffness: solid without cable end Power circuit: connector 2 10...50 mm ² - external diameter: 25 mm - cable stiffness: solid without cable end Control circuit: screw clamp terminals 1 1...2.5 mm ² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 1...2.5 mm ² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 1...2.5 mm ² - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 1...2.5 mm ² - cable stiffness: solid without cable end
Tightening torque	Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver Philips No 2 Power circuit: 12 N.m - on screw clamp terminals hexagonal screw head 4 mm Power circuit: 12 N.m - on cable connector hexagonal screw head 13 mm M8 Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver pozidriv No 2
Auxiliary contact composition	Without
Mounting support	Rail Plate

Environment

Standards	GB 14048.4 IEC 60947-4-1 IEC 60947-1
Product certifications	CCC[RETURN]CE[RETURN]UKCA
IP degree of protection	IP2X front face for main circuit conforming to IEC 60529 IP2X front face for coil circuit conforming to IEC 60529
Protective treatment	TH conforming to IEC 60068-2-30
Permissible ambient air temperature around the device	-40...60 °C operation 60...70 °C with derating -60...80 °C storage
Operating altitude	3000 m without derating
Fire resistance	850 °C conforming to IEC 60695-2-11
Mechanical robustness	Vibrations contactor open (2 Gn, 5...300 Hz) conforming to IEC 60068-2-6 Vibrations contactor closed (4 Gn, 5...300 Hz) conforming to IEC 60068-2-6 Shocks 11 ms contactor closed (15 gn) conforming to IEC 60068-2-27 Shocks 11 ms contactor open (6 Gn) conforming to IEC 60068-2-27
Height	158 mm
Width	120 mm
Depth	136 mm
Net weight	2.5 kg

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	17.5 cm
Package 1 Width	16.5 cm
Package 1 Length	20.5 cm
Package 1 Weight	2531.08 g

Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	REACH Declaration
REACH free of SVHC	Yes
EU RoHS Directive	Compliant EU RoHS Declaration
Toxic heavy metal free	Yes
Mercury free	Yes
China RoHS Regulation	China RoHS Declaration
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End Of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins